

What is claimed is:

1. A recording medium comprising:

a first region having data for a plurality of still pictures; and

a second region having still picture group information for separating the still

5 picture data in the first region into a plurality of groups within a predetermined maximum number to manage the same.

2. The recording medium according to claim 1, wherein the first and second regions exist in the form of the respective files.

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3. The recording medium according to claim 1, wherein the first region further includes audio data added to the still picture data.

4. The recording medium according to claim 3, wherein the still picture data
15 and the audio data added thereto exist in one file.

5. The recording medium according to claim 3, wherein the still picture data and the audio data added thereto exist in a space having a logically one-dimensional order.

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6. The recording medium according to claim 3, wherein the second region further includes information for managing the audio data.

7. The recording medium according to claim 1, wherein the second region
25 further includes still picture general information, containing the number of still picture groups.

8. The recording medium according to claim 1, wherein the still picture group information includes still picture group general information, containing start position

information of the still picture group and information for the number of video parts in the still picture group, and information for the respective still pictures, containing position information thereof.

5 9. The recording medium according to claim 8, wherein the still picture group general information further includes identification information for a still picture group.

10 10. The recording medium according to claim 8, wherein the position information for the respective still pictures includes size information of video parts.

10 11. The recording medium according to claim 10, wherein the position information for the respective still pictures further includes size information of audio parts for audio data for the still picture and playback time information thereof.

15 12. The recording medium according to claim 8, wherein the position information for the respective still pictures includes identification information for a still picture in a still picture group.

20 13. The recording medium according to claim 1, wherein the second region further stores playback information related to reproduction.

25 14. The recording medium according to claim 13, wherein the playback information includes identification information for a still picture group, and information for playback start and ending positions in the still picture group.

25 15. The recording medium according to claim 14, wherein the playback information is applied to all or some of still picture groups.

16. A method for recording and/or reproducing audio and/or video data on a

writable and/or rewritable recording medium comprising:

(a) recording a plurality of input still pictures; and

(b) separating the plurality of still pictures into a plurality of groups within a predetermined maximum number and recording still picture group information and
5 playback information related to reproduction.

17. The method according to claim 16, wherein the still picture group information includes still picture group general information, containing start position information for a still picture group and information for the number of video parts in the
10 still picture group, and information for the respective still pictures, containing position information for the respective still pictures.

18. The method according to claim 17, wherein the position information for the respective still pictures includes size information for video parts.

15 19. The method according to claim 18, wherein the position information includes size information of audio parts for audio data added to still pictures and playback time information.

20 20. The method according to claim 16, wherein in step (a), the audio data added to input still pictures is further recorded consecutively after the still picture data.

21. The method according to claim 20, wherein the still picture group information includes still picture group general information, containing start position
25 information for a still picture group and information for the number of video parts in the still picture group, and information for the respective still pictures, containing size information of still picture data, size information of audio data and the playback time information.

22. The method according to claim 16, further comprising the steps of:

(c) reading still picture group information to be reproduced in accordance with the playback information; and

5 (d) calculating the position of a desired still picture in accordance with the read still picture group information and reproducing the still picture data being at the calculated position.

23. The method according to claim 22, wherein the position of the desired still picture is obtained by summing the start position of a still picture group in the read still picture group information and the sizes of data preceding the desired still picture.

24. The method according to claim 20, further comprising the steps of:

(e) reading the still picture group information to be reproduced in accordance with the playback information;

15 (f) calculating the position of a desired still picture in accordance with the read still picture group information and reproducing the desired still picture being at the calculated position; and

(g) calculating the position of audio data added to the desired still picture in accordance with the read still picture group information and reproducing the audio data.

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25 25. The method according to claim 24, wherein the position of the desired still picture is obtained by summing the start position of a still picture group in the read still picture group information and the size of data preceding the desired still picture, and the position of the audio data is obtained by summing the calculated position of the still picture and the size of video parts of the still picture being at the calculated position.

26. The method according to claim 16, further comprising the steps of:

(h) reading the playback information and reading the still picture group information to be reproduced;

(i) checking the read still picture group information and determining whether the still picture has only video parts, or the still picture has audio data added thereto;

(j) if the still picture has only video parts, calculating the position of a desired still picture and reproducing the still picture data being at the calculated position; and

5 (k) if the still picture has audio data added thereto, calculating the positions of the still picture and audio data added thereto and reproducing the still picture and audio data being at the calculated positions.

27. The method according to claim 26, wherein the position of the desired still
10 picture is obtained by summing the start position of a still picture group in the read still picture group information and the size of data preceding the desired still picture, and the position of the audio data is obtained by summing the position of the still picture data being at the obtained position and the size of video parts of the desired still picture.

15 28. The method according to claim 16, further comprising the step of:

(l) reading the playback information and reading the still picture group information to be reproduced; and

(m) reproducing only the still picture or reproducing both the still picture and the audio data using the still picture group information read by user's option.

20 29. The method according to claim 28, wherein the step (m) comprises the steps of reproducing the desired still picture obtained by summing the start position of a still picture group in the read still picture group information and the size of data preceding the desired still picture, and reproducing the audio data obtained by summing
25 the calculated position of the still picture and the size of video parts of the still picture.

30. A reproduction method of a recording medium comprising a first region having data for a plurality of still pictures, a second region having still picture group information for separating the still picture data in the first region into a plurality of groups

within a predetermined maximum number to manage the same, the reproduction method comprising the step of reproducing the still picture data in the first region, based on the still picture group information in the second region.

5 31. The reproduction method according to claim 30, wherein the still picture group information includes still picture group general information, containing start position of the still picture group and information for the number of video parts in the still picture group, and information for the respective still pictures, containing position information thereof.

10 32. The reproduction method according to claim 31, wherein the position information for the respective still pictures includes size information of video parts.

15 33. The reproduction method according to claim 32, wherein the position information for the respective still pictures further includes size information of audio parts for audio data added to the still picture and playback time information.

 34. The reproduction method according to claim 30, wherein the first region further includes audio data related to the still picture data.

20 35. The reproduction method according to claim 34, wherein the still picture group information includes still picture group general information, containing start position information for a still picture group and information for the number of video parts in the still picture group, and information for the respective still pictures, containing
25 size information of still picture data, size information of audio data, playback time information.

 36. The reproduction method according to claim 34, wherein the still picture data in the first region and the audio data added to the still picture data are reproduced

based on the still picture group information.

37. An apparatus for recording and/or reproducing audio and/or video data on a writable and/or rewritable recording medium comprising:

5 a recording processor for signal-processing a plurality of still pictures to be recorded on a first region on the recording medium; and

a controller for generating still picture group information for separating still pictures in the first region into a plurality of groups with a predetermined maximum number to manage the same and playback information related to a reproduction order,
10 and controlling the generated information to be recorded on a second region.

38. The apparatus according to claim 37, wherein the first and second regions exist in the form of the respective files.

15 39. The apparatus according to claim 37, wherein the recording processor further records audio data added to input still picture data consecutively after the still picture data.

40. The apparatus according to claim 39, wherein the recording processor
20 stores the still picture data and the audio data added thereto on one file.

41. The apparatus according to claim 39, wherein the recording processor stores the still picture data and the audio data added thereto in a space having a logically one-dimensional order.
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42. The apparatus according to claim 39, wherein the controller controls information for managing the audio data to be further recorded in the second region.

43. The apparatus according to claim 37, wherein the still picture group

information includes still picture group general information, containing start position of the still picture group and information for the number of video parts in the still picture group, and information for the respective still pictures, containing position information thereof.

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44. The apparatus according to claim 43, wherein the position information for the respective still pictures includes size information of video parts.

45. The apparatus according to claim 44, wherein the position information for
10 the respective still pictures includes size information of audio parts for audio data added to the still pictures, and playback time information.

46. The apparatus according to claim 37, further comprising a playback
processor for reproducing still picture data in the first region based on the still picture
15 group information.

47. The apparatus according to claim 46, wherein the playback processor
reproduces the still picture being at a position obtained by summing the start position of
a still picture group in the still picture group information and the size of data preceding a
20 desired still picture.

48. The apparatus according to claim 46, wherein the playback processor
reproduces the still picture data and the audio data, based on the still picture group
information.

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49. The apparatus according to claim 48, wherein the playback processor
reproduces still picture data being at a position obtained by summing the start position
of a still picture group in the still picture group information and the size of data preceding
a desired still picture, and audio data being at a position obtained by summing the

calculated position of the still picture and the size of video parts of the still picture.'